PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINAR



3



То:

Outokumpu OYJ Intellectual Property Management P.O. Box 27 FIN-02201 Espoo Finland

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

IMPORTANT NOTIFICATION

Date of mailing (day/month/year)

28-05-2004

Applicant's or agent's file reference

20020780 WO

Priority date (day/month/year)

International application No. PCT/FI2003/000259

07-04-2003

23-04-2002

Applicant

Outokumpu Oyj et al

The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.

International filing date (day/month/year)

- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the 3. report (but not of any annexes) and will transmit such translation to those Offices.

REMINDER 4.

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in som Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/30!).

where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary axamination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the FCF Applicant's Guide.

Name and mailing address of the IPEA/

Patent- och registreringsverket Box 5055

S-102 42 STOCKHOLM Facsimile No. 08-667 72 88 Authorized officer

PATOREG-S

Telex

17973

Christina Wall

Telephone No.

08-782 25 00

PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416		
20020780 WO		The late (land)	
International application No.	International filing date (day/mor		
PCT/FI 2003/000259	07.04.2003	23.04.2002	
International Patent Classification (IPC) o			
C22B 3/20 // C22B 11	:00	<u>,</u>	
Applicant			
Outokumpu Oyj et al			
This report is the international pro- Authority under Article 35 and tr	eliminary examination report, estab ansmitted to the applicant according	blished by this International Preliminary Examining ng to Article 36.	
2. This REPORT consists of a total			
This report is also accompanied by			
		landa Cillarum	
a. (sent to the applican	t and to the International Bureau)	a total of sheets, as follows:	
sheets of the	description, claims and/or drawing	gs which have been amended and are the basis of this report ed by this Authority (see Rule 70.16 and Section 607 of the	
Administrati	ve Instructions).		
sheets which	supersede earlier sheets, but which	h this Authority considers contain an amendment that goes	
beyond the d Supplementa	isclosure in the international appli	cation as filed, as indicated in item 4 of Box No. I and the	
b (sent to the Internati	onal Bureau only) a total of (indic	ate type and number of electronic carrier(s))	
	, containing a seq	uence listing and/or tables related thereto, in computer sox Relating to Sequence Listing (see Section 802 of the	
readable form only, Administrative Instr	uctions).	Not remained to be desired to the second to	
This report contains indications in	elating to the following items:		
	of the report		
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h	=	d to novelty, inventive step and industrial applicability	
		d to noverty, inventive step and industrial appropriate	
	of unity of invention		
Box No. V Reaso	ned statement under Article 35(2) ability; citations and explanations	with regard to novelty, inventive step or industrial	
	ability; citations and explanations and documents cited	supporting such statement	
	n defects in the international applic	cation	
Box No. VIII Certai	n observations on the international	application	
	Data	of completion of this report	
Date of submission of the demand	Date	or combination or manapore	
		05 2004	
23.10.2003		05.2004	
Name and mailing address of the IPEA/SE		orized officer	
Patent- och registreringsverke Box 5055			
S-102 42 STOCKHOLM		ten Hulthén/MP	
Facsimile No. +46 8 667 72 88	Telep	hone No. +46 8 782 25 00	

Facsimile No. +46 8 667 72 88
Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMATION PATENTABILITY

Box	No. I	Ba	sis of the report			
1.	With rotherw	egard to	the language, this report is based on the international application in the language atted under this item.	ge in which it was filed, unless		
	\boxtimes	This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of:				
			international search (under Rules 12.3 and 23.1(b))			
		X	publication of the international application (under Rule 12.4)			
		Ħ	international preliminary examination (under Rules 55.2 and/or 55.3)			
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
	\boxtimes	the int	ernational application as originally filed/furnished			
		the de	scription:			
		pages		as originally filed/furnished		
			received by this Authority on			
		pages'	received by this Authority on			
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3.		The a	mendments have resulted in the cancellation of:	!		
			the description, pages			
ļ			the claims, Nos.			
			the drawings, sheets/figs			
		$\overline{\Box}$	the sequence listing (specify):			
١			any table(s) related to the sequence listing (specify):			
4.		This made 70.2(report has been established as if (some of) the amendments annexed to this report, since they have been considered to go beyond the disclosure as filed, as indicated co)).	t and listed below had not been in the Supplemental Box (Rule		
			the description, pages			
			the claims, Nos.			
			the drawings, sheets/figs			
		Ħ	the sequence listing (specify):			
			any table(s) related to the sequence listing (specify):			
.	76		lies, some or all of those sheets may be marked "superseded."			
1	1f itei	m 4 app	ues, some or an of mose sneets may be marked - superseded.	·		

Form PCT/IPEA/409 (Box No. I) (January 2004)

International application No.		
PCT, T	2003/000259	

Bo	k No. V	Reasoned statement un citations and explanati	nder Article 35 ons supportin	5(2) with regard to novelty, inventive step or industrial applicability; ag such statement	<u> </u>
1.	Statement	ty (N)	Claims Claims	1-11	ÆS 10
	Invent	tive step (IS)	Claims Claims	<u> </u>	ÆS 10
	Indust	trial applicability (IA)	Claims Claims		ÆS NO

2. Citations and explanations (Rule 70.7)

Documents cited as being of particular relevance:

D1 US 4551213 D2 US 4668289

The invention relates to a method of recovery of gold from a residue from copper leaching which contains sulphur and iron. The gold in the residue is leached using bivalent copper and oxygen in a copper chloride - sodium chloride solution.

D1 (abstract) discloses a process for the recovery of gold from an aqueous suspension containing cupric chloride and sodium chloride. The method defined by claim 1 of the application differs from D1 in that pH of the suspension has a value of 1-3. The claim also states explicitly that gold is leached at atmospheric conditions. D1 does not clearly state the pressure conditions. The method also differs from D1 in that the oxygen-reduction potential is kept at a value below 650 mV. The stated differences have the effect of reducing the dissolution of iron and sulphur.

A person skilled in the art who has knowledge of D1 faces the problem of reducing the dissolution of iron and sulphur and in this way improve the economy of the process.

D2 discloses a process for leaching base metal from gold-containing scrap and to obtain a metallic residue enriched in gold. Gold is not leached. Consequently, it is not considered to be obvious to a person to use the teachings of D2 in order to solve his problem.

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT 2003/000259

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: $Box\ V$

The stated differences imply improvements in reducing the costs when recovering gold from a leaching residue or an intermediate product, which is generated in the atmospheric chloride leaching of copper sulphide raw material. Consequently, the method defined by claims 1-11 is considered to involve an inventive step and is also considered to fulfil the criteria of industrial applicability.

Form PCT/IPEA/409 (Supplemental Box) (January 2004)